

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

MARUOKA

Atty. Ref.: 4815-2

Serial No. unknown

TC/A.U.: unknown

Filed: January 9, 2006

Examiner: Unknown

For: OPTICALLY ACTIVE QUATERNARY AMMONIUM SALT, PRODUCTION  
METHOD THEREOF, AND METHOD FOR PRODUCING OPTICALLY ACTIVE  $\alpha$ -  
AMINO ACID DERIVATIVE USING THE QUATERNARY AMMONIUM SALT

\* \* \* \* \*

January 9, 2006

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO/SB/08a. A copy of the International Search Report and each listed reference is attached.

This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited.

The Examiner is requested to initial the attached form PTO/SB/08a and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

Respectfully submitted,

NIXON &amp; VANDERHYE P.C.

By: \_\_\_\_\_

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PTQ/SB/08

INFORMATION DISCLOSURE CITATION	ATTY. DOCKET NO. <u>4815-2</u>	SERIAL NO. <u>10/563658</u>
	APPLICANT <u>MARUOKA</u>	
(Use several sheets if necessary)	FILING DATE <u>January 9, 2006</u>	TC/A.U. <u>unknown</u>

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

	International Search Report of PCT/JP2004/010387, mailed 8 February 2005
	OOI et al., "Design of N-Spiro C <sub>2</sub> -Symmetric Chiral Quaternary Ammonium Bromides as Novel Chiral Phase-Transfer Catalysts: Synthesis and Application to Practical Asymmetric Synthesis of $\alpha$ -Amino Acids", Journal of the American Chemical Society, 2003, Vol. 125, No. 17, Pgs. 5139-5151
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	YAMASHITA et al., "Highly Anti-Selective Asymmetric Aldol Reactions Using Chiral Zirconium Catalysts. Improvement of Activities, Structure of the Novel Zirconium Complexes, and Effect of a Small Amount of Water for the Preparation of the Catalysts", Journal of the American Chemical Society, 2002, Vol. 124, No. 13, Pgs. 3292-3302, Scheme 2, 3
	TIAN et al., "An Asymmetric Catalytic Carbon-Carbon Bond Formation In A Fluorous Biphasic System Based on Perfluoroalkyl-BINOL", Tetrahedron Letters, 2000, Vol. 41, No. 45, Pgs. 8813-8816, Scheme 1

\*Examiner \_\_\_\_\_ Date Considered \_\_\_\_\_

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Sheet 2 of 2

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CITATION		4815-2	unknown
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		January 9, 2006	unknown

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	OOI, et al., "Facile synthesis of L-Dopa <i>tert</i> -butyl ester by catalytic enantioselective phase-transfer alkylation", <i>Tetrahedron Letters</i> , 2000, Vol. 41, Pgs. 8339-8342
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\*Examiner

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